



## ASP-MG24

2 input By 4 Output

Signal Processor / Masking Generator

**SOFTWARE LOADING FOR USB & QUICK START GUIDE**

### INTRODUCTION

The Atlas Sound ASP-MG24 is a 2 input by 4 output digital loudspeaker management system and masking generator designed for fixed sound installation markets. The ASP-MG24 features the latest in available technology utilizing a 32-bit (40-bit extended) floating point processors and high performance 24-bit Analog Converters. Both balanced inputs are mic/line selectable along with 4 additional independent masking generator input sources. Inputs and outputs can be routed or mixed in multiple configurations to meet even the most complex system designs. Control parameters include I/O levels, delay, polarity, parametric EQ, crossover selections, 31 band EQ, White/Pink Noise, Auto Ramp, routing, mixing and compressor/limiters. The ASP-MG24 can be controlled or configured in real time with the intuitive PC GUI, accessed via the RS-232 or USB interface. Software upgrade for CPU and DSP via PC always keeps the ASP-MG24 current. Optional masking scheduler and programmable remote control is also available.

*Specifications are subject to change without notice*



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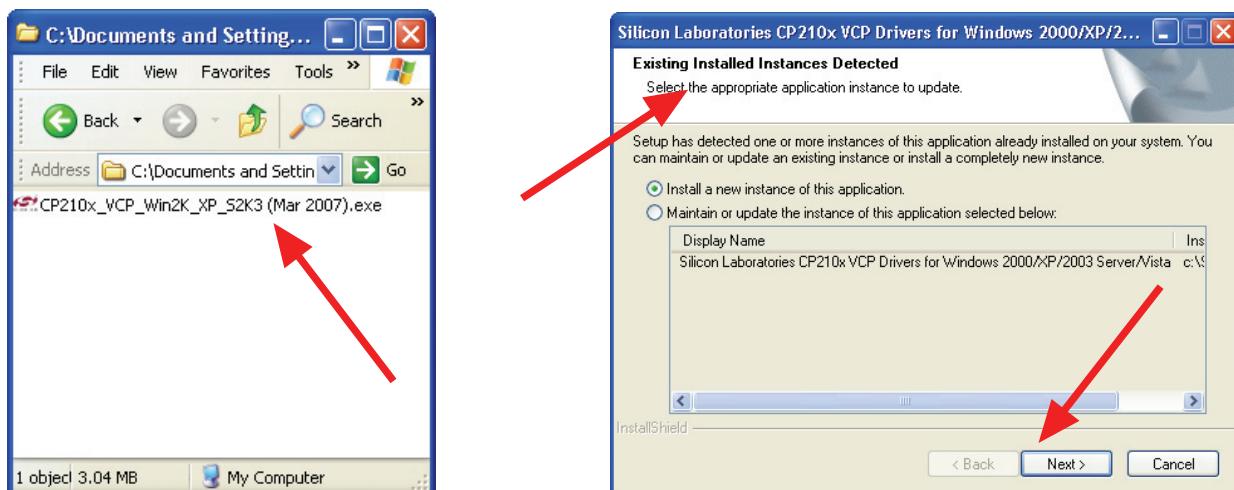
## LOADING THE SOFTWARE

There are two files on the disk that need to be loaded prior to connecting the ASP-MG24.

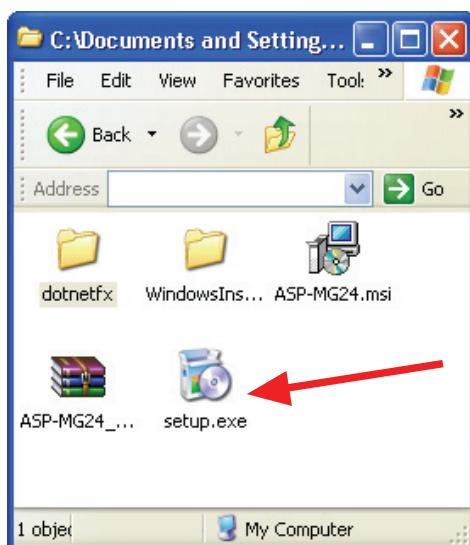
- ASP-MG24 v0100
- ASP USB driver (CP210x USB to UART to Controller)

## FOLLOW THE STEPS BELOW.

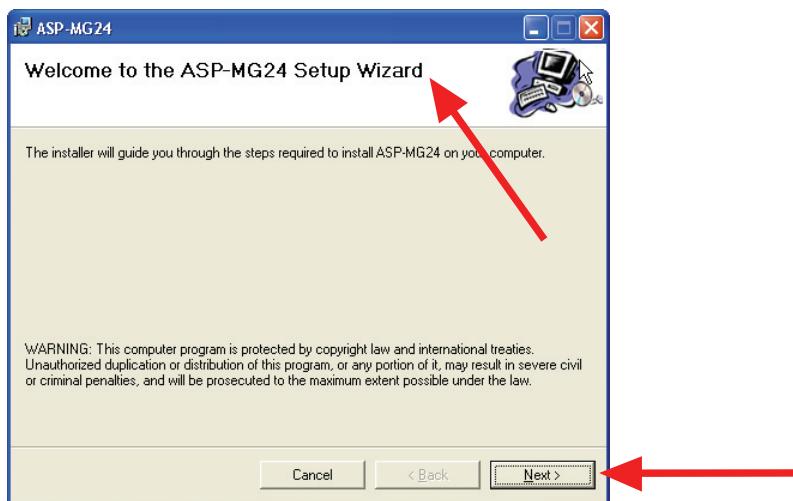
1. Open the ASP USB driver file and follow the Silicon CP210x prompt wizard.



2. Open the ASP-MG24 folder and click on the Setup file. Follow the wizard prompts until finished.



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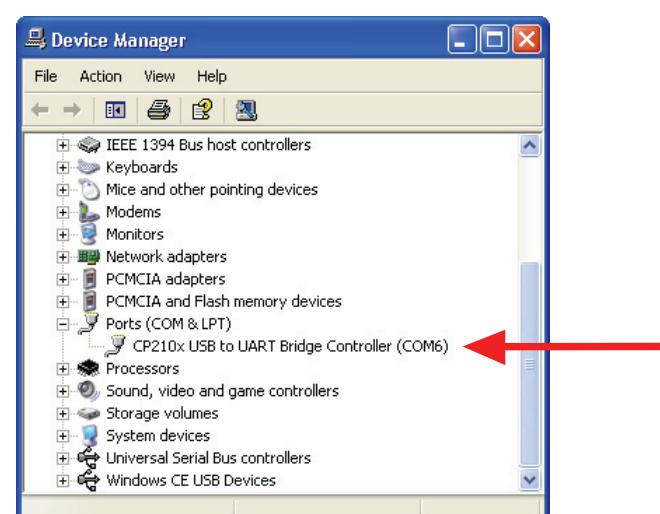
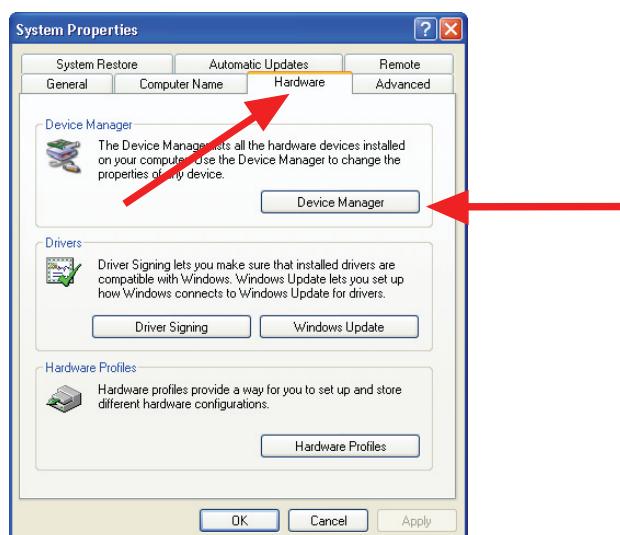


3. After both programs are installed you need to find out which comport in your computer is assigned to use with the ASP-MG24 generator. Turn on the ASP-MG24, the Blue power LED should be on. Next, connect a USB cable from the ASP-MG24 to your computer. **Note: A prompt on your computer should pop up and say "New USB Device Found".** Click on it and tell it to locate the USB driver automatically. After the computer matches the computer to the USB driver it must find which COM Port it was assigned to.

**Note: If the ASP-MG24 is not connected to your computer, it will not indicate a COM Port.**

4. Finding the assigned COM Port. Follow these steps from your Windows desktop screen. Note: Your Control Panel window may appear "Category" view. It is easier to operate in "Classic" view. To do so, click on the tab on the left side of the screen that says "Switch to Classic View", then follow the steps below.

- 1. Start, 2. Control Panel, 3. System, 4. Hardware, 5. Device Manager, 6. Scroll to "Ports (Com & LPT)". Click on the "+" sign and listed should be "CP210x USB to UART to Controller", followed by the assigned COM Port number. In this case it was COM6.



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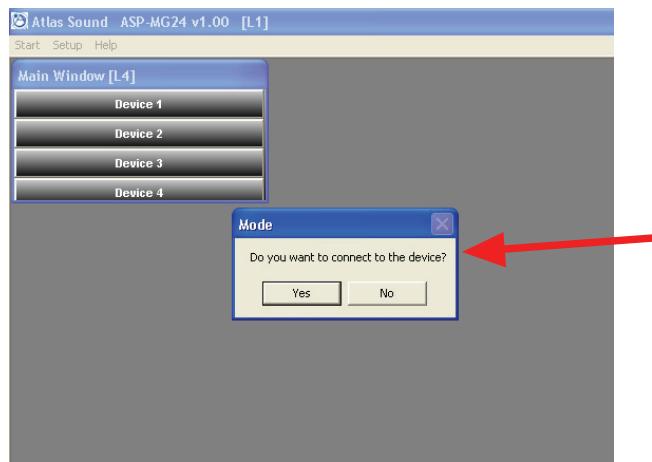
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5. After you have located the COM port you can open the ASP-MG24 software. Go to Start, Program files, Atlas and then ASP-MG24. Click on the .exe file which also has the Atlas Logo. I suggest at this time you create a shortcut to your desktop. This can be done by right clicking on the .exe file and select "Create Short Cut. Then drag it onto your desk top.

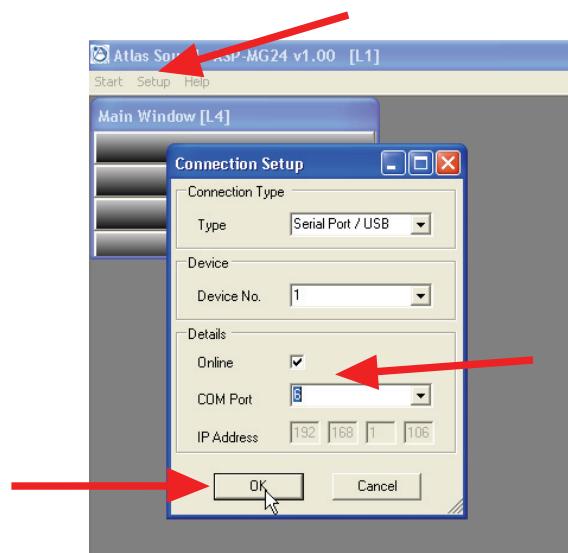
6. When the ASP-MG24 software is open it should look like the following.



7. The software will ask you if you want to connect to the device. Click yes.

8. You need to assign the device comport number that's given in step 4. To do this click on "Setup" at the top left, select "Port Connection". Change the COM port number to the assigned number and click "OK".

Note: The Yellow Data LED on the ASP-MG24 will start to blink, indicating a connection between the ASP-MG24 and the computer has been made. If the Data Light is not blinking, recheck the COM Port setting.



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9. Opening a device window. Go to "Start" at the top left. Click onto "Log On". At this time do not enter a Password. Just click "OK".



10. Click on "Device 1" and the following screen will appear. In the lower right corner of the Device 1 control box is a Green box indicating the operation status. This will tell you if you are operating Off Line, Link Ok or in process. The ASP-MG24 is also known as a "Device". Note: Multiple ASP-MG24 can be controlled via this GUI interface. Device 1 is the default setting when using one ASP unit.



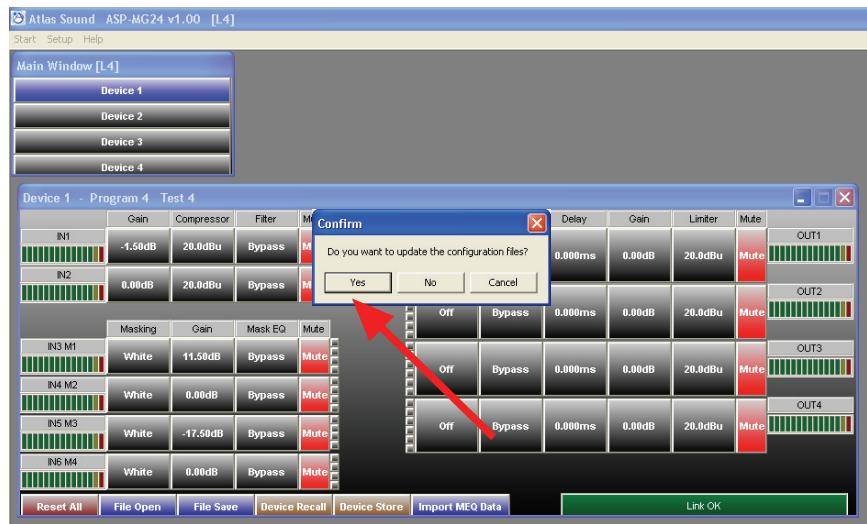
11. Continue on using the software. For more help refer to the ASP-MG24 manual.

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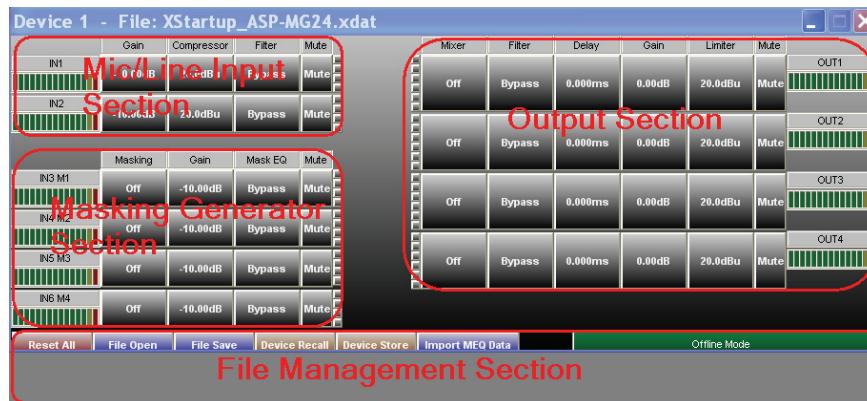
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12. Now that you went through these setup steps you will not have to again as long as you save the settings when you close out of the ASP-MG24 program.



### 13. FOUR MAIN SOFTWARE CONTROL SECTIONS.

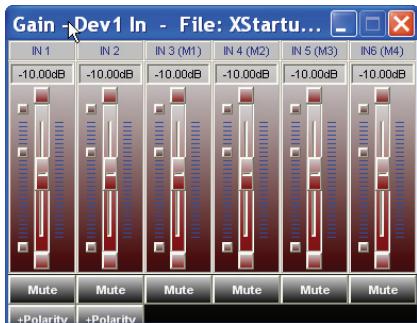


- **Mic/Line Input Section** – This allows you to adjust gain on any input, set the maximum input levels via the compressor/limiter, assign Hi & Low Cut filters and 8 parametric filter settings
- **Masking Generator Section** – The Masking section allows you to select between White & Pink noise, assign Hi & Low Cut filters and 8 parametric filter settings and fine tune the system via the 1/3 octave EQ.
- **Output Section** – The output section has a mix feature that allows you to route and mix any or all inputs to an output. You can also assign parametric filters, delay, set gain and signal limits.
- **File Management Section** – System files can be downloaded via email or the web. Files can be created without being connected to an ASPMG24. Once files are created they can be saved to the ASPMG24 and saved as a backup to your computer. Presets saved on the device can also be recalled from the field. MEQ files can also be imported directly into the device. A systems status window also tells you if you are in sync mode or offline.

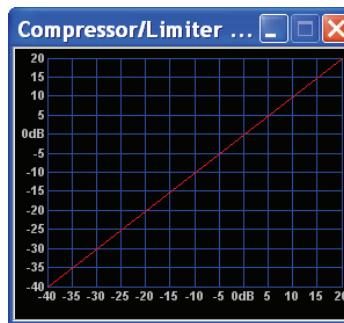
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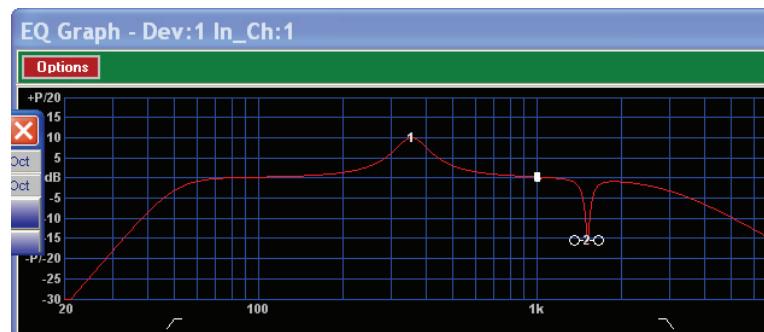
**14. Common Input Sub Windows** – Some of these windows are similar type to Masking and output sections.  
Note: All windows can be moved to meet your viewing preference.



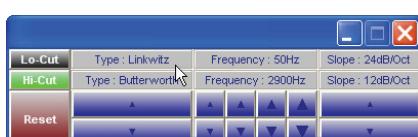
Input Gain Window



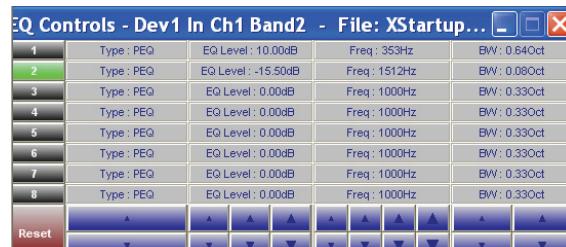
Input Compressor/Limiter Windows



Filter Viewing Window



Hi &amp; Low Cut Filter Window

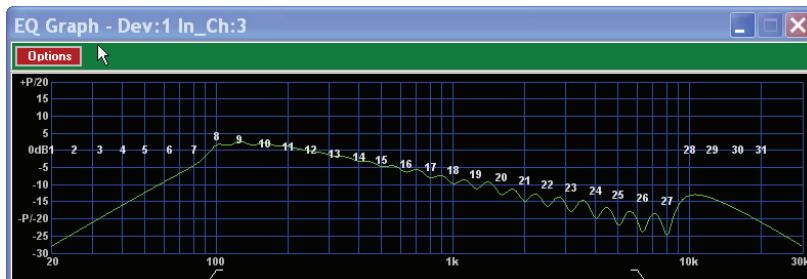


Parametric Filter Window

**15. Masking Section** – There are four independent generators that are on random clock associators. Each generator input can have gain, Hi & Low cut filters, parametric and 1/3rd octave EQ points assigned. There is a power ramp up time delay that also can be set for bypassed. An optional advanced scheduler is also available.

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Filter Viewing Window

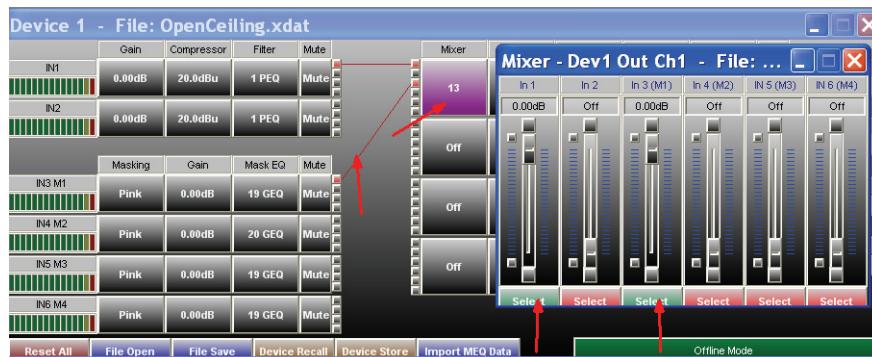
Lo-Cut	Type: Butterworth	Frequency: 100Hz	Slope: 12dB/Oct
Hi-Cut	Type: Butterworth	Frequency: 8000Hz	Slope: 12dB/Oct
<b>Reset</b>			
	▲	▲	▲
	▼	▼	▼

Hi &amp; Low Cut Window

8 - 100Hz	4.00dB
9 - 125Hz	3.00dB
10 - 160Hz	2.00dB
11 - 200Hz	1.00dB
12 - 250Hz	0.00dB
13 - 315Hz	-1.00dB
14 - 400Hz	-2.00dB
15 - 500Hz	-3.00dB
16 - 630Hz	-4.00dB
17 - 800Hz	-5.00dB
18 - 1kHz	-6.00dB
19 - 1.25kHz	-7.00dB
20 - 1.5kHz	-8.00dB
21 - 2kHz	-9.00dB
22 - 2.5kHz	-10.00dB
23 - 3.15kHz	-11.00dB
24 - 4kHz	-12.00dB
25 - 5kHz	-13.00dB
26 - 6.3kHz	-14.00dB
27 - 8kHz	-15.00dB
<b>Reset</b>	
	▲
	▼

1/3 Octave Window

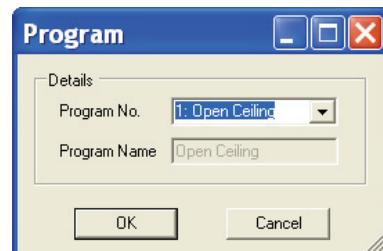
**16. Output Section** – This section consists of a mixer & signal router, filter section, delay, gain and a limiter section. Note: The mixer section has routing lines to indicate which inputs are assigned to that output. All incoming levels can be adjusted independently to all the required mix level at the output.



**17. File Recall and Store** – Works like other Windows file structure programs.



Program Files



Device Program Store &amp; Recall

**18. For more detailed information refer to ASPMG24 owners manual.**

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